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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/544,192	08/02/2005	Noriyuki Kikuchi	285-05	8340
John F McNul	7590 03/09/200 tv	EXAMINER		
Paul & Paul 2900 Two Thousand Market Street Philadelphia, PA 19103			CADUGAN, ERICA E	
			ART UNIT	PAPER NUMBER
1			3722 .	
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SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		03/09/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)
	10/544,192	KIKUCHI, NORIYUKI
Office Action Summary	Examiner	Art Unit
	Erica E. Cadugan	3722
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR RI WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communicatio - If NO period for reply is specified above, the maximum statutory p - Failure to reply within the set or extended period for reply will, by s Any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNION OF THIS COMMUNI	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on (<u>02 August 2005</u> .	
2a) ☐ This action is FINAL . 2b) ☑	This action is non-final.	
3) Since this application is in condition for all	owance except for formal matt	ers, prosecution as to the merits is
closed in accordance with the practice und	der <i>Ex parte Quayle</i> , 1935 C.D). 11, 453 O.G. 213.
Disposition of Claims		
4)⊠ Claim(s) <u>1 and 2</u> is/are pending in the app	lication.	
4a) Of the above claim(s) is/are with	ndrawn from consideration.	
5) Claim(s) is/are allowed.		•
6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction a	nd/or election requirement.	,
Application Papers		
9)☐ The specification is objected to by the Exa	miner.	•
10)⊠ The drawing(s) filed on <u>02 August 2005</u> is/s	are: a)⊠ accepted or b)⊡ ob	jected to by the Examiner.
Applicant may not request that any objection to	- · ·	
Replacement drawing sheet(s) including the co	· · · · · · · · · · · · · · · · · · ·	
Priority under 35 U.S.C. § 119		
12)⊠ Acknowledgment is made of a claim for for a)⊠ All b)□ Some * c)□ None of:	reign priority under 35 U.S.C. §	3 119(a)-(d) or (f).
1. Certified copies of the priority docum		
2. Certified copies of the priority documents	•	• • • • • • • • • • • • • • • • • • • •
3. Copies of the certified copies of the	•	received in this National Stage
application from the International Bu * See the attached detailed Office action for a		received
See the attached detailed Office action for a	inst of the certified copies not	received.
Attachment(s)		
1) Notice of References Cited (PTO-892)		Summary (PTO-413)
 Notice of Draftsperson's Patent Drawing Review (PTO-948 Information Disclosure Statement(s) (PTO/SB/08) 		s)/Mail Date nformal Patent Application
Paper No(s)/Mail Date <u>8/2/2005</u> .	6) Other:	

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DETAILED ACTION

Information Disclosure Statement

1. The listing of references in the specification (see page 1) is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609.04(a) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claim 2 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 2, lines 2-3, "the extension" lacks sufficient antecedent basis in the claim.

In claim 2, lines 5-6, "said pallet mounting surface, on the side of said pallet support member where said pallet moves" lacks sufficient antecedent basis in the claim. Note that 1) "said pallet mounting surface" by itself lacks antecedent basis because plural pallet mounting surfaces were previously set forth in the claims, and that 2) "the side of said pallet support member where said pallet moves" lacks sufficient antecedent basis {and thus does not help with issue regarding point 1)} because no "side" of the pallet support member "where said pallet moves" was previously claimed.

Double Patenting

4. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

5. Claims 1-2 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-2 of commonly assigned copending Application No. 10/541,430.

For double patenting to exist between claims 1-2 of the present case and claims 1-2 of the '430 application, it must be determined that the rejected claims are not patentably distinct from claims 1-2 of '430. In order to make this determination, it first must be determined whether there are any differences between the rejected claims and claims 1-2 of '430, and, if so, whether those differences render the claims patentably distinct.

Although the conflicting claims are not identical, they are not patentably distinct from each other because:

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Note that each of the elements of the present claims 1-2 are present in claims 1-2 of '430. The differences between present claims 1-2 and claims 1-2 of '430 lie in that claims 1-2 of '430 include more limitations, and are thus slightly more specific, e.g., claim 1 of '430 sets forth "a machine tool facility", which limitation is not expressly found in present claims 1 or 2. However, present claim 1 is directed to a "pallet changer...", and a pallet changer having each of the limitations of the present claims 1-2 is found in claims 1-2 of '430.

(As a side note, it is noted that it can additionally or alternatively be mentioned that the limitation "a machine tool facility" that is equipped with the claimed pallet exchanger is a broad limitation and doesn't impart any specific structure to such a "machine tool facility" beyond the fact that it is a facility having a machine tool, and it is noted that present claims 1-2 are claimed in conjunction with a "machine tool" and are thus inherently part of a "machine tool facility" as any location having such a machine tool is, as broadly claimed, a "machine tool facility").

However, even if the claims of '430 include more limitations than the present claims, that doesn't change the fact that the claims of '430 still include all of the limitations from the present claims, and thus "anticipate" the present claims. See *In re Goodman*, 29 USPQ2d 2010 (Fed. Cir. 1993). Since present claims 1-2 are anticipated by claims 1-2 of the '430 application, they are not patentably distinct.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (f) he did not himself invent the subject matter sought to be patented.
- 7. Claims 1-2 are rejected under 35 U.S.C. 102(f) because the applicant did not invent the claimed subject matter. Note that U.S. Patent Application Publication 2006/0260907 to Ota (having no common inventor with the present application, but having a common assignee), which is the published version of the aforementioned (in the double patenting rejection above) 10/541,430 application, teaches every limitation of each of the present claims. See at least Figures 1-9 of the published Ota application.
- 8. Claims 1-2, 2 is as best understood in light of the above rejection under 35 USC 112, are rejected under 35 U.S.C. 102(b) as being anticipated by WO 02/00388 to Geiger et al.

WO '388 is not in the English language. However, U.S. Pat. No. 6,826,821 to Geiger et al. is in the same patent family, and is being relied upon as an English equivalent to the WO '388 reference. Thus, all references to column and line numbers herein are with respect to the '821 patent.

Geiger teaches a machine tool system including a plurality of machine tools 36 (36a-36f) laid out in various configurations (see Figures 4 and 14, for example; Figure 1 shows a detail of an individual machine tool 36). Note that Geiger teaches a machine tool having a horizontal main spindle 10 having a tool 16 mounted at a front end thereof, and "table" or "pallet-mounting plate" 26/29 is mounted "facing" the front surface of the spindle 10 (such that a vertical surface of 29 is perpendicular to the horizontal spindle axis as viewed in at least Figure 7), and detachably mounts a "pallet" 31 which has a vertical surface to/on which a workpiece 15 is affixed (see Figures 1, 7, noting that Figure 7 shows the table/pallet-mounting plate 26/29

positioned facing the spindle 10, noting also that 26 is a turntable device for rotating member 29 about a vertical axis.

Additionally, note that Geiger teaches various embodiments of a supply and take-down equipment arrangement or "pallet exchanger" 41, 61, 72 (see Figures 1 and 8-14) which are used to deliver a pallet 31 to or remove a pallet 31 from a desired machine tool 36a-f (see especially figures 4 and 14), and which pallet exchangers travel along a "track" 38 from one machine tool to another, and back and forth from a "pallet stocker" area 59/60, see Figure 4, for example, also col. 5, lines 7-21, for example. For example, "pallet exchanger" 61 is shown in Figures 8-12, and has a base, such as, for example, element 42 (other elements could likewise or alternatively be considered a "base" as broadly claimed), a "pallet support member" including, for example, at least element 55 (see Figures 9-12) which "rotates" about vertical axis 68 "in an indexing manner" (see col. 6, lines 2-26, for example, and especially note the pivoting or rotating motion as illustrated in Figures 10-12, which illustrate the rotation movement of 55 about the vertical pivot axis 68, described specifically as vertical in col. 6, line 11). Further note that the "pallet support member", which includes at least element 55, includes "at least two vertical palletmounting surfaces", such as the vertical pallet gripping surfaces on the gripper jaws 56 of element 55 (note that in Figure 9, axis 68 is the vertical rotation axis, and that jaws 56 have pallet gripping surfaces extending into the plane of the paper that are parallel to that axis).

Additionally, re the claimed "pallet moving means", note that the motor 69 and gearbox 66 are used to perform the rotation motion of 55 about the vertical axis 68, and are thus considered to be the claimed "pallet-moving means for moving the pallet (31), in a vertical

state", between the table/pallet-mounting plate 26/29 and the "pallet support member" including at least 55 to thereby exchange the pallets (see Figures 8-14 and col. 6, lines 2-26).

Re claim 2, see Figures 4 and 14, noting that the "pallet support member" including, for example, at least element 55, is movable along the track or conveyor path 38 in a horizontal direction perpendicular to the horizontal spindle axis (see also Figure 1, noting the configuration and location of path 38 relative to the horizontal spindle axis) to positions such that it is "arranged in the extension of said table or said pallet mount in the horizontal direction perpendicular to the spindle axis" as claimed.

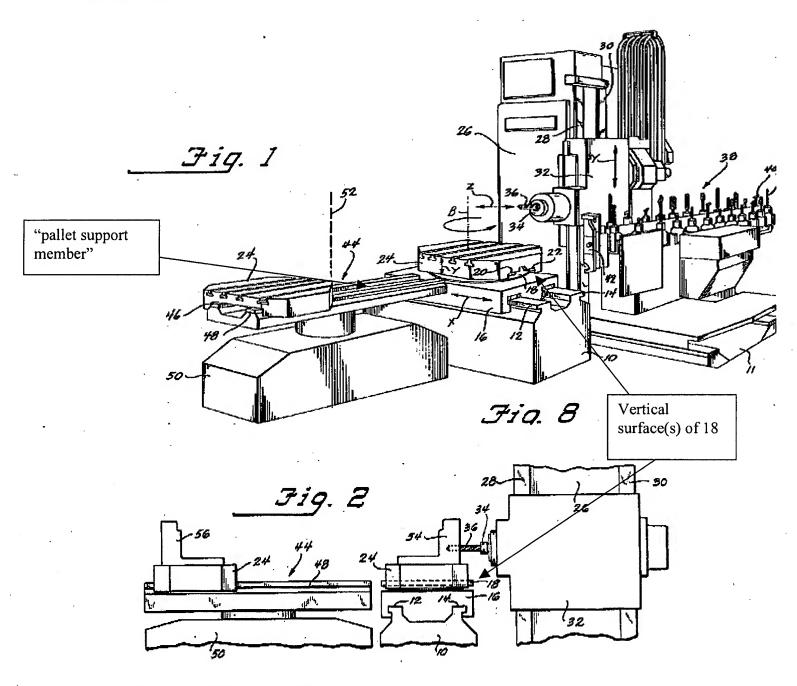
Additionally, re claim 2, note that the "pallet support member" including, for example, at least element 55, on a side (such as the right side as viewed in Figures 1, 9, and the top side as viewed in Figures 10-12, noting the orientation of 38/39 shown in Figures 9-12) of the pallet support member (55 would be located at the left of Figure 1) where the pallet 31 moves when it is held by 29 (see Figure 1), is able to be arranged "in parallel" to a pallet mounting surface of the table/pallet mount 26/29 (see Figures 1 and 9-14, for example).

9. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Pat. No. 4,090,287 to Selander, for example.

Note that tool 36 is rotated by a tool spindle about a horizontal axis, and that a pallet exchanging device 44 (Figures 1-2) for exchanging pallets 24 has a "pallet support member" (labeled below) that is rotatable about a vertical axis 52 (Figure 1). Also note that the "pallet support member" has at least two vertical "pallet mounting surfaces (vertical sides of the ways 46, 48 of the pallet support member) on which the pallets 24 are removably mounted.

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"Table" or "pallet mount" 18 has a vertical surface that faces the spindle and that is perpendicular to the axis of the spindle, and when the table or pallet mount 18 is rotated about vertical axis B to the position shown in Figure 1, has a vertical surface perpendicular to the axis

of the spindle on which the pallet 24 is "mounted", as broadly claimed (see Figure 1 especially, see the reproduction of Figures 1-2 above).

Further note that pallet transfer bar 58 is driven to move horizontally to move the pallets 24 between the table/pallet mount 18 and the "pallet support member" (see Figure 3, col. 3, line 43 through col. 4, line 37, for example), and that as broadly claimed, the pallets 24 can be considered to be in a "vertical position" during the transfer since the pallets 24 have surfaces that remain vertical during the transfer (see Figures 2-3, for example).

Conclusion

- 10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- Any inquiry concerning this communication or earlier communications from the 11. examiner should be directed to Erica E. Cadugan whose telephone number is (571) 272-4474. The examiner can normally be reached on M-F, 6:30 a.m. to 4:00 p.m., alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Monica S. Carter can be reached on (571) 272-4475. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Erica E Cadugan Primary Examiner

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